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FILE COVERS 1907 - 22 Apr 2004 VOL 140 ISS 18 FILE LAST UPDATED: 22 Apr 2004 (20040422/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s alpha(W)2(W)macroglob?
       1448060 ALPHA
          2473 ALPHAS
       1448150 ALPHA
                  (ALPHA OR ALPHAS)
       7818176 2
          8809 MACROGLOB?
L1
          5767 ALPHA (W) 2 (W) MACROGLOB?
    s alpha(W)) sub(W)2(W) macroglob?
MISSING TERM 'W))SUB'
The search profile that was entered contains a logical operator
followed immediately by a right parenthesis ')'.
=> s alpha(W) sub(W) 2(W) macroglob?
       1448060 ALPHA
          2473 ALPHAS
       1448150 ALPHA
                  (ALPHA OR ALPHAS)
         64780 SUB
           124 SUBS
         64896 SUB
                  (SUB OR SUBS)
       7818176 2
          8809 MACROGLOB?
L2
             0 ALPHA(W)SUB(W)2(W)MACROGLOB?
=> s a2m
L3
           262 A2M
=> s a2mg
            10 A2MG
=> s a(W) sub(W)2(W)mg
      17183497 A
         64780 SUB
           124 SUBS
         64896 SUB
                  (SUB OR SUBS)
       7818176 2
       1269680 MG
          1182 MGS
       1270439 MG
```

(MG OR MGS)

```
0 A(W)SUB(W)2(W)MG
=> s a(W) sub(W) 2(W) m
      17183497 A
         64780 SUB
           124 SUBS
        64896 SUB
                  (SUB OR SUBS)
       7818176 2
       2085474 M
             1 A(W) SUB(W) 2(W) M
=> s 11 or 13 or 14 or 16
          5911 L1 OR L3 OR L4 OR L6
=> save temp 17
ENTER NAME OR (END):alpha2mg/a
ANSWER SET L7 HAS BEEN SAVED AS 'ALPHA2MG/A'
=> s Hyaluronic(W)acid
         12105 HYALURONIC
             1 HYALURONICS
         12105 HYALURONIC
                  (HYALURONIC OR HYALURONICS)
       3767545 ACID
       1417285 ACIDS
       4227071 ACID
                  (ACID OR ACIDS)
         11528 HYALURONIC (W) ACID
=> s hyaluronan
          2742 HYALURONAN
            33 HYALURONANS
          2743 HYALURONAN
                 (HYALURONAN OR HYALURONANS)
=> s hyaluronate
          5608 HYALURONATE
           141 HYALURONATES
          5637 HYALURONATE
                  (HYALURONATE OR HYALURONATES)
=> s 18 or 19 or 110
         15710 L8 OR L9 OR L10
=> save temp 111
ENTER NAME OR (END):hyaluronic/a
ANSWER SET L11 HAS BEEN SAVED AS 'HYALURONIC/A'
=> s tissue(W)inhibitor(W)metalloproteinase(W)1
        582962 TISSUE
        288570 TISSUES
        744198 TISSUE
                 (TISSUE OR TISSUES)
        431318 INHIBITOR
        452099 INHIBITORS
```

L5

L6

Г8

T.9

L10

695180 INHIBITOR

7642351 1

13788 METALLOPROTEINASE 6934 METALLOPROTEINASES 15195 METALLOPROTEINASE

(INHIBITOR OR INHIBITORS)

(METALLOPROTEINASE OR METALLOPROTEINASES)

```
42 TISSUE (W) INHIBITOR (W) METALLOPROTEINASE (W) 1
L12
=> s timp1
           677 TIMP1
L13
=> s timp(W)1
          3979 TIMP
           961 TIMPS
          4065 TIMP
                  (TIMP OR TIMPS)
       7642351 1
L14
          2340 TIMP(W)1
=> s 112 or 113 or 115
L15 NOT FOUND
The L-number entered could not be found. To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).
=> s 112 or 113 or 114
L15
          2475 L12 OR L13 OR L14
=> save temp 115
ENTER NAME OR (END):timp1/a
ANSWER SET L15 HAS BEEN SAVED AS 'TIMP1/A'
=> d his
     (FILE 'HOME' ENTERED AT 16:25:44 ON 23 APR 2004)
     FILE 'CA' ENTERED AT 16:25:53 ON 23 APR 2004
L1
           5767 S ALPHA (W) 2 (W) MACROGLOB?
              0 S ALPHA(W)SUB(W)2(W)MACROGLOB?
L2
L3
            262 S A2M
             10 S A2MG
L4
              0 S A(W) SUB(W) 2(W) MG
L5
L6
              1 S A(W) SUB(W) 2(W) M
L7
           5911 S L1 OR L3 OR L4 OR L6
                SAVE TEMP L7 ALPHA2MG/A
\Gamma8
          11528 S HYALURONIC (W) ACID
L9
           2743 S HYALURONAN
L10
           5637 S HYALURONATE
          15710 S L8 OR L9 OR L10
                SAVE TEMP L11 HYALURONIC/A
L12
             42 S TISSUE(W) INHIBITOR(W) METALLOPROTEINASE(W) 1
L13
            677 S TIMP1
L14
           2340 S TIMP(W)1
           2475 S L12 OR L13 OR L14
L15
                SAVE TEMP L15 TIMP1/A
=> s 17 and 111 and 115
             1 L7 AND L11 AND L15
=> activate livfib/a
L17 (
        524116) SEA FILE=CA ABB=ON PLU=ON HEPATIC OR LIVER OR BILIARY
         33222) SEA FILE=CA ABB=ON PLU=ON FIBROT? OR FIBROS? OR FIBROL? OR FI
L19
           3847 SEA FILE=CA ABB=ON PLU=ON L17(2A)L18
=> 116 and 119
L16 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
```

"HELP COMMANDS" at an arrow prompt (=>).

```
=> s 116 and 119
            1 L16 AND L19
L20
=> file biosis
COST IN U.S. DOLLARS
                                                   SINCE FILE
FULL ESTIMATED COST
FILE 'BIOSIS' ENTERED AT 16:37:05 ON 23 APR 2004
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FILE COVERS 1969 TO DATE.
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FROM JANUARY 1969 TO DATE.
RECORDS LAST ADDED: 21 April 2004 (20040421/ED)
FILE RELOADED: 19 October 2003.
=> s 120
        621255 ALPHA
           373 ALPHAS
        621386 ALPHA
                  (ALPHA OR ALPHAS)
       3031817 2
          7194 MACROGLOB?
          5011 ALPHA (W) 2 (W) MACROGLOB?
           264 A2M
             8 A2MG
       7620897 A
         58854 SUB
            49 SUBS
         58900 SUB
                 (SUB OR SUBS)
       3031817 2
        678159 M
             0 A(W)SUB(W)2(W)M
          6835 HYALURONIC
             1 HYALURONICS
          6836 HYALURONIC
                 (HYALURONIC OR HYALURONICS)
       1154009 ACID
        308426 ACIDS
       1292321 ACID
                 (ACID OR ACIDS)
          6813 HYALURONIC (W) ACID
          3182 HYALURONAN
            23 HYALURONANS
          3188 HYALURONAN
                 (HYALURONAN OR HYALURONANS)
          2543 HYALURONATE
            30 HYALURONATES
          2554 HYALURONATE
                  (HYALURONATE OR HYALURONATES)
        622816 TISSUE
        248440 TISSUES
        783223 TISSUE
                  (TISSUE OR TISSUES)
        365456 INHIBITOR
        181726 INHIBITORS
        471081 INHIBITOR
```

(INHIBITOR OR INHIBITORS)

16681 METALLOPROTEINASE

TOTAL

SESSION

56.63

ENTRY

56.42

```
8005 METALLOPROTEINASES
         19214 METALLOPROTEINASE
                  (METALLOPROTEINASE OR METALLOPROTEINASES)
       3099252 1
            27 TISSUE (W) INHIBITOR (W) METALLOPROTEINASE (W) 1
           169 TIMP1
          4302 TIMP
          1006 TIMPS
          4499 TIMP
                 (TIMP OR TIMPS)
       3099252 1
          2632 TIMP(W)1
        141949 HEPATIC
           510 HEPATICS
        142372 HEPATIC
                 (HEPATIC OR HEPATICS)
        458396 LIVER
         23714 LIVERS
        463052 LIVER
                 (LIVER OR LIVERS)
         36662 BILIARY
          5829 FIBROT?
         73486 FIBROS?
           898 FIBROL?
          3799 FIBROG?
          6903 L17(2A)L18
L21
             3 L16 AND L19
=> file medline
COST IN U.S. DOLLARS
                                                  SINCE FILE
                                                                   TOTAL
                                                       ENTRY
                                                                 SESSION
FULL ESTIMATED COST
                                                        0.85
                                                                   57.48
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On February 29, 2004, the 2004 MeSH terms were loaded. See HELP RLOAD
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MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the
MeSH 2004 vocabulary. See http://www.nlm.nih.gov/mesh/ and
http://www.nlm.nih.gov/pubs/techbull/nd03/nd03 mesh.html for a
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 120

474055 ALPHA
490 ALPHAS
474306 ALPHA
(ALPHA OR ALPHAS)

2800372 2
11808 MACROGLOB?
4160 ALPHA(W) 2 (W) MACROGLOB?
228 A2M
10 A2MG
7648522 A
32058 SUB
21 SUBS
32077 SUB
(SUB OR SUBS)
```

description of changes.

```
2800372 2
        375852 M
             0 A(W)SUB(W)2(W)M
         10341 HYALURONIC
       1255858 ACID
        469922 ACIDS
       1453655 ACID
                  (ACID OR ACIDS)
         10325 HYALURONIC (W) ACID
          2644 HYALURONAN
            21 HYALURONANS
          2653 HYALURONAN
                  (HYALURONAN OR HYALURONANS)
          2297 HYALURONATE
            25 HYALURONATES
          2308 HYALURONATE
                  (HYALURONATE OR HYALURONATES)
        761234 TISSUE
        237597 TISSUES
        904488 TISSUE
                 (TISSUE OR TISSUES)
        231337 INHIBITOR
        477753 INHIBITORS
        583190 INHIBITOR
                 (INHIBITOR OR INHIBITORS)
          9649 METALLOPROTEINASE
          8529 METALLOPROTEINASES
         13719 METALLOPROTEINASE
                  (METALLOPROTEINASE OR METALLOPROTEINASES)
       3209923 1
            17 TISSUE (W) INHIBITOR (W) METALLOPROTEINASE (W) 1
           112 TIMP1
          3505 TIMP
          1054 TIMPS
          3680 TIMP
                 (TIMP OR TIMPS)
       3209923 1
          2209 TIMP(W)1
        153049 HEPATIC
            16 HEPATICS
        153061 HEPATIC
                 (HEPATIC OR HEPATICS)
        599753 LIVER
         22691 LIVERS
        601239 LIVER
                 (LIVER OR LIVERS)
         55796 BILIARY
            34 BILIARIES
         55806 BILIARY
                 (BILIARY OR BILIARIES)
          6876 FIBROT?
         89303 FIBROS?
          1050 FIBROL?
          3143 FIBROG?
          5128 L17(2A)L18
             1 L16 AND L19
=> duplicate remove
ENTER L# LIST OR (END):120-121
DUPLICATE PREFERENCE IS 'CA, BIOSIS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):y
ENTER FILE NAMES OF DUPLICATES TO KEEP:ca
COST IN U.S. DOLLARS
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L22

pet pulo related to instead application

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=> d 123 1-4 bib ab

L23 ANSWER 1 OF 4 CA COPYRIGHT 2004 ACS on STN 139:242563 CA ΑN

Macromolecular markers for the diagnosis of liver TT

Rose, Steven L.; Oh, Esther H.; Walsh, Michael J. IN

Prometheus Laboratories, Inc., USA PΑ

SO PCT Int. Appl., 133 pp. CODEN: PIXXD2

DT Patent

English LΑ

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE ----_____ WO 2003-US6038 20030228 PΙ WO 2003073822 A2 20030912 W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2003175686 20030918 US 2002-87188 20020228 **A**1

PRAI US 2002-87188 Α 20020228

The present invention provides a method of diagnosing the presence or AB severity of liver fibrosis in an individual by detecting .alpha.2-macroglobulin $(\alpha 2-MG)$ in sample from the individual; detecting hyaluronic

acid (HA) in a sample from the individual; detecting tissue inhibitor of metalloproteinases-1 (TIMP-1) in a sample from the individual; and diagnosing the presence or severity of liver fibrosis in the individual based on the presence or level of $\alpha 2$ -MG, HA and TIMP-1. A number of liver markers were analyzed in serum of patients with liver fibrosis of known stages. Statistical analyses of the ability of a number of combinations of markers to accurately discriminate the disease are presented.

- L23 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- 2003:583010 BIOSIS AN
- DN PREV200300572829
- TI PERFORMANCE CHARACTERISTICS OF A NON-INVASIVE FIBROSIS MARKER PANEL IN DIFFERENTIATING MINIMAL STAGE (F0-F1) FROM PROGRESSIVELY SEVERE FIBROSIS IN CHRONIC HEPATITIS C PATIENTS. .

- Patel, Keyur [Reprint Author] ΑU
- Durham, NC, USA CS
- Digestive Disease Week Abstracts and Itinerary Planner, (2003) Vol. 2003, SO pp. Abstract No. M876. e-file. Meeting Info.: Digestive Disease 2003. FL, Orlando, USA. May 17-22, 2003. American Association for the Study of Liver Diseases; American Gastroenterological Association; American Society for Gastrointestinal Endoscopy; Society for Surgery of the Alimentary Tract.

DTConference; (Meeting) Conference; Abstract; (Meeting Abstract)

- English LA
- Entered STN: 10 Dec 2003 ED Last Updated on STN: 10 Dec 2003
- Background: Liver biopsy is an invasive and expensive procedure that may AB be associated with morbidity, but at present provides the only reliable means of assessing disease severity in chronic hepatitis C. There is a need to identify reliable non-invasive serum markers of fibrosis. A panel of markers based on extracellular matrix and connective tissue proteins may have some utility in this regard. Aims: To assess the performance of a 3-marker panel in differentiating minimal fibrosis(F0-F1) from those with severe disease (F4 plus or minus F3) Methods: Serum

hyaluronic acid (HA), tissue inhibitor of metalloproteinase (TIMP-1) and Alpha-

2 macroglobulin (AMG) had been previously evaluated as a panel of fibrosis markers in 294 selected chronic HCV patients from a single center. An algorithm for METAVIR fibrosis severity (F2/3/4 versus F0/1) was developed, and subsequently validated in 402 chronic HCV patients from another 3 centers. All serum samples were obtained at or near the biopsy date, and stored at minus 70 degrees C. until analysis. Liver biopsies had been scored by an expert panel of pathologists at each center, with a high degree of concordance (0.85) for the METAVIR scoring system. The performance of the panel was evaluated for its ability to distinguish fibrosis stages F4 from F0-F1, and F3-F4 from F0-F1. Results: For all 696 patients the sensitivity of the panel for F2-F4 fibrosis was 60.8 percent, with an accuracy of 79.5 percent. The sensitivity improved to 78.3 percent for F3-F4 (n equals 221) and 89.2 percent for F4 alone (n equals 118). The accuracy of the test was 89.9 percent and 94.5 percent respectively (see table). Specificity of the panel (ie negative test for F0-F1) remained at 96.2 percent. The predictive value of a positive test (PPV) for F3-F4 was 91.8 percent, and 88.1 percent for F4 alone. The indeterminate rates were in the 24-29 percent range (ie panel result that could not be assigned to a fibrosis group). Conclusions: This panel of serum fibrosis markers (FibroSpectSM) may reliably differentiate minimal stage fibrosis from those with bridging fibrosis and cirrhosis in chronic hepatitis C. However, markers that perform well at a moderate fibrosis stage (F2), and which also reflect changes in fibrosis with time, require further evaluation..

- L23 ANSWER 3 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- 2003:2943 BIOSIS AN
- DN PREV200300002943
- ΤI Clinical laboratory performance of the FIBROSpectSM serodiagnostic test for the detection of liver fibrosis.
- port dutes ΑU Oh, Esther H. [Reprint Author]; Nguyen, Philip [Reprint Author]; Mancuso, Rosemary [Reprint Author]; Smith, Katie M. [Reprint Author]
- CS Prometheus Laboratories Inc, San Diego, CA, USA
- Hepatology, (October 2002) Vol. 36, No. 4 Part 2, pp. 566A. print. SO Meeting Info.: 53rd Annual Meeting on the Liver. BOSTON, MA, USA. November 01-05, 2002.

ISSN: 0270-9139 (ISSN print).

- DΤ Conference; (Meeting) Conference; Abstract; (Meeting Abstract)
- LA English

Lutes

- Entered STN: 18 Dec 2002 Last Updated on STN: 18 Dec 2002
- ANSWER 4 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN T₂3
- 2004:7174 BIOSIS ΑN
- PREV200400000522 DN
- ΤI Evaluation and optimization of a panel of serum markers for liver fibrosis in chronic hepatitis C patients.
- Patel, Keyur [Reprint Author]; McHutchinson, John G.; Oh, Esther; Nguyen, AU Phillip; Rose, Steven
- CS La Jolla, CA, USA
- Gastroenterology, (July 2002) Vol. 123, No. 1 Supplement, pp. 48. print. SO Meeting Info.: Digestive Disease Week and the 103rd Annual Meeting of the American Gastroenterological Association. San Francisco, CA, USA. May 19-22, 2002. American Gastroenterological Association. CODEN: GASTAB. ISSN: 0016-5085.
- Conference; (Meeting) DΤ Conference; Abstract; (Meeting Abstract)
- English LА
- Entered STN: 17 Dec 2003 EDLast Updated on STN: 17 Dec 2003

=> d 122 bib ab YOU HAVE REQUESTED DATA FROM FILE 'MEDLINE' - CONTINUE? (Y)/N:y

- L22 ANSWER 1 OF 1 MEDLINE on STN
- AN 2003528127 MEDLINE
- DN PubMed ID: 14606100
- TIGrading and staging of hepatic fibrosis, and its relationship with noninvasive diagnostic parameters.
- ΑU Lu Lun-Gen; Zeng Min-De; Wan Mo-Bin; Li Cheng-Zhong; Mao Yi-Min; Li Ji-Qiang; Qiu De-Kai; Cao Ai-Ping; Ye Jun; Cai Xiong; Chen Cheng-Wei; Wang Ji-Yao; Wu Shan-Ming; Zhu Jin-Shui; Zhou Xia-Qiu
- Shanghai Institute of Digestive Disease, Renji Hospital, Shanghai Second CS pest Medical University, Shanghai 200001, China.. lulungen@online.sh.cn
- SO World journal of gastroenterology: WJG, (2003 Nov) 9 (11) 2574-8. Journal code: 100883448. ISSN: 1007-9327.
- CY China
- DTJournal; Article; (JOURNAL ARTICLE)
- LΑ English
- FS Priority Journals
- EM200312
- ED Entered STN: 20031108 Last Updated on STN: 20031220 Entered Medline: 20031219
- AB-AIM: To explore the grade and stage of pathology and the relationship between grading and staging of hepatic fibrosis and noninvasive diagnostic parameters. METHODS: Inflammatory activity and fibrosis of consecutive liver biopsies from 200 patients with chronic liver disease were determined according to the Diagnostic Criteria of Chronic Hepatitis in China, 1995. A comparative analysis was made in these patients comparing serum markers, Doppler ultrasonography, CT and/or MR imaging with the findings of liver biopsy. RESULTS: With increase of inflammatory activity, the degree of fibrosis also rose. There was a close correlation between liver fibrosis and inflammatory activity. AST, GGT, albumin, albumin/globulin, ALP, AFP, hyaluronic acid, N-terminal procollagen III(P III NP), collagen type IV(Col IV), tissue inhibitors of metalloproteinases-1 (TIMP-1), alpha-2-

macroglobulin, natural killer cells (NK), some parameters of

Doppler ultrasonography, CT and/or MR imaging were all related to the degree of inflammatory activity. GGT, albumin, albumin/globulin, ALP, AFP, hyaluronic acid, Col IV, TIMP-1

, alpha-2- macroglobulin, transforming

growth factor-beta 1 (TGFbeta1), NK, some parameters of Doppler ultrasonography, CT and/or MR imaging were all related to the staging of fibrosis. By regression analysis, the parameters used in combination to differentiate the presence or absence of fibrosis were age, GGT, the parameter of blood flow of portal vein per minute, the maximum oblique diameter of right liver by B ultrasound, the wavy hepatic surface contour by CT and/or MR. The sensitivity, specificity and accuracy of the above parameters were 80.36%, 86.67%, and 81.10%, respectively. CONCLUSION: There is close correlation between liver fibrosis and inflammatory activity. The grading and staging of liver fibrosis are related to serum markers, Doppler ultrasonography, CT and/or MR imaging. The combination of the above mentioned noninvasive parameters are quite sensitive and specific in the diagnosis of hepatic fibrosis.

=> log y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	1.27	69.30
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	\mathtt{TOTAL}
	ENTRY	SESSION
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FULL ESTIMATED COST

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FILE COVERS 1907 - 22 Apr 2004 VOL 140 ISS 18 FILE LAST UPDATED: 22 Apr 2004 (20040422/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s hepatic or liver or biliary

104129 HEPATIC

36 HEPATICS

104155 HEPATIC

(HEPATIC OR HEPATICS)

493900 LIVER

33502 LIVERS

496640 LIVER

(LIVER OR LIVERS)

23114 BILIARY

1 BILIARIES

23115 BILIARY

(BILIARY OR BILIARIES)

L1 524116 HEPATIC OR LIVER OR BILIARY

=> s fibrot? or fibros? or fibrol? or fibrog?

3134 FIBROT?

30275 FIBROS?

528 FIBROL?

2661 FIBROG?

L2 33222 FIBROT? OR FIBROS? OR FIBROL? OR FIBROG?

=> s 11(2a)12

L3 3847 L1(2A)L2

=> save temp 13

ENTER NAME OR (END):livfib/a

ANSWER SET L3 HAS BEEN SAVED AS 'LIVFIB/A'

=> s multivariant or multi(W) variant or multiple

419 MULTIVARIANT

4 MULTIVARIANTS

423 MULTIVARIANT

(MULTIVARIANT OR MULTIVARIANTS)

95142 MULTI

1 MULTIS

95143 MULTI

(MULTI OR MULTIS)

51165 VARIANT

52771 VARIANTS

89749 VARIANT

(VARIANT OR VARIANTS)

40 MULTI(W) VARIANT

301572 MULTIPLE

```
2810 MULTIPLES
        304080 MULTIPLE
                  (MULTIPLE OR MULTIPLES)
        304524 MULTIVARIANT OR MULTI(W) VARIANT OR MULTIPLE
L4
=> s marker or indicator
         99378 MARKER
         87975 MARKERS
        157140 MARKER
                 (MARKER OR MARKERS)
        128101 INDICATOR
         62535 INDICATORS
        170864 INDICATOR
                 (INDICATOR OR INDICATORS)
L5
        323438 MARKER OR INDICATOR
=> 14(5a)15
L4(5A)L5 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
=> s 14(5a)15
          1491 L4(5A)L5
L6
=> save temp 16
ENTER NAME OR (END): multmark/a
ANSWER SET L6 HAS BEEN SAVED AS 'MULTMARK/A'
=> s multivariant or multi(W) variant or multiple or combin?
           419 MULTIVARIANT
             4 MULTIVARIANTS
           423 MULTIVARIANT
                 (MULTIVARIANT OR MULTIVARIANTS)
         95142 MULTI
             1 MULTIS
         95143 MULTI
                 (MULTI OR MULTIS)
         51165 VARIANT
         52771 VARIANTS
         89749 VARIANT
                 (VARIANT OR VARIANTS)
            40 MULTI(W) VARIANT
        301572 MULTIPLE
          2810 MULTIPLES
        304080 MULTIPLE
                 (MULTIPLE OR MULTIPLES)
        887119 COMBIN?
L7
       1167388 MULTIVARIANT OR MULTI(W) VARIANT OR MULTIPLE OR COMBIN?
=> del 14
L6 REFERENCES L4
DELETE L4? (Y)/N:y
=> s 17(5a)15
^{18}
          3456 L7(5A)L5
=> del 16
DELETE L6? (Y)/N:y
=> save temp 18
ENTER NAME OR (END):combmark/a
ANSWER SET L8 HAS BEEN SAVED AS 'COMBMARK/A'
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```
(FILE 'HOME' ENTERED AT 13:33:52 ON 23 APR 2004)
     FILE 'CA' ENTERED AT 13:34:19 ON 23 APR 2004
L1
        524116 S HEPATIC OR LIVER OR BILIARY
L2
          33222 S FIBROT? OR FIBROS? OR FIBROL? OR FIBROG?
           3847 S L1(2A)L2
L3
                SAVE TEMP L3 LIVFIB/A
L5
         323438 S MARKER OR INDICATOR
                SAVE TEMP L*** MULTMARK/A
        1167388 S MULTIVARIANT OR MULTI(W) VARIANT OR MULTIPLE OR COMBIN?
L7
L8
           3456 S L7(5A)L5
                SAVE TEMP L8 COMBMARK/A
=> s detect? or monitor? or diagnos? or prognos?
       1291552 DETECT?
        301921 MONITOR?
        193439 DIAGNOS?
         30923 PROGNOS?
Ь9
       1672622 DETECT? OR MONITOR? OR DIAGNOS? OR PROGNOS?
=> 13 and 18 and 19
L3 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
=> s 13 and 18 and 19
L10
            8 L3 AND L8 AND L9
=> file biosis
COST IN U.S. DOLLARS
                                                  SINCE FILE
                                                                  TOTAL
                                                       ENTRY
                                                                SESSION
FULL ESTIMATED COST
                                                       46.46
                                                                  46.67
FILE 'BIOSIS' ENTERED AT 13:46:13 ON 23 APR 2004
COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)
FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.
RECORDS LAST ADDED: 21 April 2004 (20040421/ED)
FILE RELOADED: 19 October 2003.
=> s 110
        141949 HEPATIC
           510 HEPATICS
        142372 HEPATIC
                 (HEPATIC OR HEPATICS)
        458396 LIVER
         23714 LIVERS
        463052 LIVER
                 (LIVER OR LIVERS)
         36662 BILIARY
          5829 FIBROT?
         73486 FIBROS?
           898 FIBROL?
          3799 FIBROG?
```

6903 L1(2A)L2

```
342 MULTIVARIANT
      6 MULTIVARIANTS
    348 MULTIVARIANT
          (MULTIVARIANT OR MULTIVARIANTS)
  54898 MULTI
      4 MULTIS
  54902 MULTI
          (MULTI OR MULTIS)
  58932 VARIANT
  54324 VARIANTS
 100435 VARIANT
          (VARIANT OR VARIANTS)
 312896 MULTIPLE
   1731 MULTIPLES
 314345 MULTIPLE
          (MULTIPLE OR MULTIPLES)
 572841 COMBIN?
 154381 MARKER
 127559 MARKERS
 249900 MARKER
          (MARKER OR MARKERS)
  64957 INDICATOR
  37079 INDICATORS
  96884 INDICATOR
          (INDICATOR OR INDICATORS)
   4935 L7 (5A) L5
 929209 DETECT?
 268173 MONITOR?
1009098 DIAGNOS?
147652 PROGNOS?
     10 L3 AND L8 AND L9
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=> file medline

L11

COST IN U.S. DOLLARS

SINCE FILE TOTAL

FULL ESTIMATED COST

ENTRY SESSION 0.85 47.52

FILE 'MEDLINE' ENTERED AT 13:46:46 ON 23 APR 2004

FILE LAST UPDATED: 22 APR 2004 (20040422/UP). FILE COVERS 1951 TO DATE.

On February 29, 2004, the 2004 MeSH terms were loaded. See HELP RLOAD for details. OLDMEDLINE now back to 1951.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2004 vocabulary. See http://www.nlm.nih.gov/mesh/ and http://www.nlm.nih.gov/pubs/techbull/nd03/nd03_mesh.html for a description of changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 110

153049 HEPATIC

16 HEPATICS

153061 HEPATIC

(HEPATIC OR HEPATICS)

599753 LIVER

22691 LIVERS

601239 LIVER

(LIVER OR LIVERS)

55796 BILIARY

34 BILIARIES

```
(BILIARY OR BILIARIES)
           6876 FIBROT?
          89303 FIBROS?
           1050 FIBROL?
           3143 FIBROG?
           5128 L1(2A)L2
            440 MULTIVARIANT
              3 MULTIVARIANTS
            442 MULTIVARIANT
                  (MULTIVARIANT OR MULTIVARIANTS)
          43571 MULTI
             83 MULTIS
          43579 MULTI
                  (MULTI OR MULTIS)
          57141 VARIANT
          49035 VARIANTS
          95277 VARIANT
                  (VARIANT OR VARIANTS)
         403901 MULTIPLE
          3706 MULTIPLES
         405463 MULTIPLE
                  (MULTIPLE OR MULTIPLES)
        703012 COMBIN?
        115121 MARKER
        183060 MARKERS
        258809 MARKER
                  (MARKER OR MARKERS)
         52715 INDICATOR
         83776 INDICATORS
        132020 INDICATOR
                  (INDICATOR OR INDICATORS)
          4690 L7(5A)L5
        821983 DETECT?
        285954 MONITOR?
       1914299 DIAGNOS?
        291133 PROGNOS?
L12
            15 L3 AND L8 AND L9
=> duplicate remove
ENTER L# LIST OR (END):110-112
DUPLICATE PREFERENCE IS 'CA, BIOSIS, MEDLINE'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
COST IN U.S. DOLLARS
                                                  SINCE FILE
                                                                   TOTAL
                                                        ENTRY
                                                                 SESSION
FULL ESTIMATED COST
                                                        0.38
                                                                   47.90
FILE 'CA' ENTERED AT 13:47:24 ON 23 APR 2004
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FILE 'MEDLINE' ENTERED AT 13:47:24 ON 23 APR 2004
PROCESSING COMPLETED FOR L10
PROCESSING COMPLETED FOR L11
PROCESSING COMPLETED FOR L12
             22 DUPLICATE REMOVE L10-L12 (11 DUPLICATES REMOVED)
=> d 113 1-22 bib ab
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55806 BILIARY

- L13 ANSWER 1 OF 22 MEDLINE on STN
- AN 2004152998 IN-PROCESS
- DN PubMed ID: 15046217
- TI Circulating matrix metalloproteinases 1, 2, 9 and their inhibitors TIMP-1 and TIMP-2 as serum markers of **liver fibrosis** in patients with chronic hepatitis C: comparison with PIIINP and hyaluronic acid.
- AU Leroy Vincent; Monier Frederique; Bottari Serge; Trocme Candice; Sturm Nathalie; Hilleret Marie-Noelle; Morel Francoise; Zarski Jean-Pierre
- CS Departement d'Hepato-Gastroenterologie, CHU de Grenoble, France.
- SO American journal of gastroenterology, (2004 Feb) 99 (2) 271-9. Journal code: 0421030. ISSN: 0002-9270.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS IN-PROCESS; NONINDEXED; Priority Journals
- ED Entered STN: 20040330 Last Updated on STN: 20040330
- OBJECTIVES: Histological examination of liver biopsy is currently required AΒ in the management of patients with chronic hepatitis C. Our aim was to evaluate the diagnostic utility of a panel of circulating markers in detecting the stage of fibrosis. METHODS: One hundred and ninety four-patients who had undergone a percutaneous liver biopsy before antiviral treatment, and 194 age- and sex-matched healthy subjects were studied. Serum levels of hyaluronate, procollagen type III N-terminal peptide (PIIINP), matrix metalloproteinases (MMP)-1, MMP-2, MMP-9 and their tissue inhibitors of metalloproteinases (TIMP)-1 and TIMP-2 were determined by RIA and ELISA. Histological lesions were staged according to the METAVIR score. RESULTS: Hyaluronate, PIIINP, TIMP-1, and TIMP-2 serum levels were significantly higher in patients than in controls. Six markers were significantly correlated with fibrosis: MMP-2 (r = 0.28; p < 0.01), TIMP-1 (r = 0.42; p < 0.001), HA (r = 0.50; p < 0.001)0.001), PIIINP (r = 0.62; p < 0.0001), MMP-1 (r = -0.32; p < 0.01), and MMP-9 (r = -0.22; p < 0.05). By multivariate analysis, only PIIINP and MMP-1 were independently associated with fibrosis, and were combined using the equation of the logistic regression model. Using receiver-operating characteristics analysis, the area under the curve of the score to discriminate mild (FO/F1) from significant fibrosis (F2/F3/F4) was 0.82, with a sensitivity of 60% for a specificity of 92%. CONCLUSION: Our results suggest that combining two serum markers reflecting fibrogenesis (PIIINP) and fibrolysis (MMP-1) may provide a useful tool for evaluating liver fibrosis.
- L13 ANSWER 2 OF 22 CA COPYRIGHT 2004 ACS on STN
- AN 139:242563 CA
- TI Macromolecular markers for the diagnosis of liver fibrosis
- IN Rose, Steven L.; Oh, Esther H.; Walsh, Michael J.
- PA Prometheus Laboratories, Inc., USA
- SO PCT Int. Appl., 133 pp. CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

	PAT	ENT :	NO.		KI	ND	DATE			Α	PPLI	CATI	ON N	ο.	DATE			
										_								
ΡI	PI WO 2003073822			A2 20030912				WO 2003-US6038				8	20030228					
		W:	ΑE,	ΑG,	AL,	AM,	ΑT,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	CZ,	DE,	DE,	DK,	DK,	DM,	DZ,	EC,	EE,	EE,	ES,
			FI,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JΡ,	ΚE,	KG,
			ΚP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,
			MX,	ΜZ,	NO,	ΝZ,	OM,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SK,
			SL.	TJ.	TM.	TN.	TR.	TT.	TZ.	UA.	UG.	US.	UZ.	VĊ.	VN.	YU.	7.A.	ZM.

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ZW, AM, AZ, BY RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG A1 20030918 US 2003175686 US 2002-87188 20020228 PRAI US 2002-87188 20020228 Α The present invention provides a method of diagnosing the presence or severity of liver fibrosis in an individual by **detecting** $\alpha 2$ -macroglobulin ($\alpha 2$ -MG) in sample from the individual; detecting hyaluronic acid (HA) in a sample from the individual; detecting tissue inhibitor of metalloproteinases-1 (TIMP-1) in a sample from the individual; and diagnosing the presence or severity of liver fibrosis in the individual based on the presence or level of $\alpha 2$ -MG, HA and TIMP-1. A number of liver markers were analyzed in serum of patients with liver fibrosis of known stages. Statistical analyses of the ability of a number of combinations of markers to accurately discriminate the disease are presented. ANSWER 3 OF 22 MEDLINE on STN AN 2003587883 MEDLINE DN PubMed ID: 14669336 TI Relationship between clinical and pathologic findings in patients with chronic liver diseases. ΑU Lu Lun-Gen; Zeng Min-De; Mao Yi-Min; Li Ji-Qiang; Qiu De-Kai; Fang Jing-Yuan; Cao Ai-Ping; Wan Mo-Bin; Li Cheng-Zhong; Ye Jun; Cai Xiong; Chen Cheng-Wei; Wang Ji-Yao; Wu Shan-Ming; Zhu Jin-Shui; Zhou Xia-Qiu CS Shanghai Institute of Digestive Disease, Renji Hospital, Shanghai Second Medical University, Shanghai 200001, China.. lulungen@online.sh.cn postdates SO World journal of gastroenterology: WJG, (2003 Dec) 9 (12) 2796-800. Journal code: 100883448. ISSN: 1007-9327. CYDТ Journal; Article; (JOURNAL ARTICLE) (MULTICENTER STUDY) LА English FS Priority Journals EM 200403 Entered STN: 20031216 ED Last Updated on STN: 20040316 Entered Medline: 20040315 AΒ AIM: To explore the relationship between clinical findings of patients with chronic liver diseases and the pathologic grading and staging of liver tissues. METHODS: The inflammatory activity and fibrosis of consecutive liver biopsies from 200 patients were determined according to the diagnosis criteria of chronic hepatitis in China established in 1995. A comparative analysis was carried out for 200 patients with chronic liver diseases by comparing their clinical manifestations, serum biochemical markers with the grading and staging of liver tissues. RESULTS: It was revealed that age, index of clinical symptoms and physical signs were obviously relevant to the pathologic grading and staging of liver tissues (P<0.05). Blood platelet, red blood cells, aspartate aminotransferase (AST), N-terminal procollagen III (PIII NP) were apparently correlated with the degree of inflammation. (prothrombin time, GGT, apoprotein A1) index, PGAA (PGA+delta2macroglobulin) index, albumin and albumin/globulin were relevant to both inflammation and fibrosis. Hyaluronic acid (HA) was an accurate variable for the severity of hepatic inflammation and fibrosis.

The combination of serum markers for fibrosis could

increase the diagnostic accuracy. It was notable that viral

replication markers were not relevant to the degree of inflammation and fibrosis. CONCLUSION: There is a good correlation between clinical findings and the pathologic grading and staging of liver tissues, which

may give aid to the noninvasive diagnosis of liver fibrosis.

- ANSWER 4 OF 22 MEDLINE on STN L13
- ΑN 2004045128 IN-PROCESS
- DN PubMed ID: 14744384
- TΙ Diagnostic values of serum levels of HA, PC III, C IV and LN to the liver fibrosis in children with beta-thalassemia
- ΑU Xu Hong-qui; Fang Jian-pei; Huang Shao-liang; Li Hai-qang; Zhong Feng-yi; Guo Hai-xia; Su Hong
- Department of Pediatrics, Second Affiliated Hospital, Sun Yat-Sen CS University, Guangzhou 510120, China.
- SO Zhonghua er ke za zhi. Chinese journal of pediatrics, (2003 Aug) 41 (8) Journal code: 0417427. ISSN: 0578-1310. post dates
- CY
- Journal; Article; (JOURNAL ARTICLE) DΤ
- LΑ
- FS IN-PROCESS; NONINDEXED; Priority Journals
- ED Entered STN: 20040128

Last Updated on STN: 20040309

AB OBJECTIVE: The presence of liver fibrosis in patients with beta-thalassemia major has been demonstrated to be an important negative prognostic factor. Identification of liver fibrosis in early stage would be of great value. Hyaluronic acid (HA), type III pre-collagen (PC III), collagen IV (C IV) and laminin (LN) as serum markers were widely used in the diagnosis of liver fibrosis in patients with chronic viral infections or alcoholic liver diseases. However, their values in thalassemic liver fibrosis have not been studied. This work was to determine the serum HA, PC III, C IV and LN levels in children with beta-thalassemia major and evaluate the diagnostic utility. METHOD: Serum HA, PC III, C IV and LN in 49 hospitalized children with beta-thalassemia major (aged 1 - 15 years with the media age of 6.27years) and 41 healthy children served as controls (aged 1 - 13 years with media age of 6.40 years) were detected by radioimmunoassay (RIA). Forty-five of 49 cases were performed percutaneous liver biopsies, and the histopathological fibrosis was compared with the four serum markers. The correlation and discriminate analysis were used. RESULTS: All the serum levels of HA, PC III, C IV and LN in beta-thalassemia were significantly higher than those in controls (P < 0.01). In 36 of 45 cases, the histopathology showed liver fibrosis including stage I and stage II by biopsies with a positive rate of 80%. The serum levels of four markers increased successively with the aggravation of liver fibrosis from stage 0 to stage II, and significant correlation was observed between the level of HA or PC III and the stage of fibrosis (HA, r = 0.379, P = 0.017; PC III, r =0.455, P = 0.04). While there was no difference between the level of C IV or LN and fibrosis (C IV, r = 0.312, P = 0.053; LN, r = 0.310, P = 0.055). Using discriminate analysis, the discriminate function of codetection of the four markers for the diagnosis of fibrosis was 0.002 HA + 0.003 PC III + 0.002 C IV + 0.006 LN-1.859, which had a sensitivity of 93.88%, specificity of 68.29%, predictive value of

more practical value in diagnosing liver fibrosis than the levels of C IV and LN. The combination of the four serum markers could improve the accuracy and reliability of the diagnosis. A validation study is necessary

positive test and negative test of 77.97% and 90.32%, respectively. Moreover, there was a significant correlation between the serum level of HA or PC III and the liver iron concentration (HA, r = 0.318, P = 0.035; PC III, r = 0.305, P = 0.044). CONCLUSION: The results suggest that, in beta-thalassemia major with chronic liver disease, HA and PC III showed

before introducing into the prediction function during the clinical practice.

- ANSWER 5 OF 22 CA COPYRIGHT 2004 ACS on STN L13 DUPLICATE 1
- 139:270330 CA AN
- Biochemical surrogate markers of liver fibrosis and ΤI activity in a randomized trial of peginterferon alfa-2b and ribavirin
- ΑU Poynard, Thierry; McHutchison, John; Manns, Michael; Myers, Rob P.; Albrecht, Janice
- CS Service d'Hepato-Gastroenterologie, Groupe Hospitalier Pitie-Salpetriere, Universite Paris VI, Paris, Fr.
- SO Hepatology (Philadelphia, PA, United States) (2003), 38(2), 481-492 pest de la CODEN: HPTLD9; ISSN: 0270-9139
- PΒ W. B. Saunders Co.
- Journal DТ
- LΑ English
- AΒ Liver fibrosis and activity indexes were validated in patients infected by hepatitis C virus (HCV) nontreated and treated by interferon. The aim was to validate their usefulness as surrogate markers of histol. features using the data of a randomized trial of combination peginterferon alfa-2b and ribavirin. Three hundred fifty-two patients who had 2 interpretable liver biopsies and stored serum sample before and after treatment were selected. Two hundred eight patients received peginterferon alfa-2b 1.5 mcg per kg and ribavirin and 144 patients interferon alfa-2b 3 MU three times a week and ribavirin for 48 wk. A fibrosis and an activity index combining 5 and 6 biochem. markers were assessed at baseline and at end of follow-up (24 wk after treatment). The biochem. markers have significant predictive values both for the diagnosis of fibrosis and for activity. For the diagnosis of bridging fibrosis and/or moderate necroinflammatory activity, the area under the receiver operating characteristics curve of the activity index was 0.76±0.03 at baseline and 0.82±0.02 at end of follow-up. A cutoff of activity index at 0.30 (range, 0.00-1.00) had 90% sensitivity and 88% pos. predictive value for the diagnosis of bridging fibrosis or moderate necroinflammatory activity. Sensitivity analyses with biopsy specimens of size greater than 15 mm suggest that a part of discordances between biochem. markers and histol. were due to biopsy specimen sampling error. In conclusion, these biochem. markers of fibrosis and activity could be used as surrogate markers for liver biopsy in patients with chronic hepatitis C, both for the initial evaluation and for follow-up.
- RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- ANSWER 6 OF 22 MEDLINE on STN
- 2003310269 IN-PROCESS AN
- DN PubMed ID: 12837216
- ΤI Noninvasive evaluation of liver fibrosis in chronic hepatitis B patients.
- ΑU Chen Yu; Wang Bao-en; Jia Ji-dong; Qian Lin-xue; Wang Tai-ling; Chen Min-hua; Chen Guang-yong; He Wen; Ding Hui-guo; Yin Shan-shan; Zhang Yan; Dong Zhong
- Center for Artificial Liver, Beijing You'an Hospital, Affiliated to CS Capital University of Medical Sciences, Beijing 100054, China.
- SO Zhonghua gan zang bing za zhi = Zhonghua ganzangbing zazhi = Chinese journal of hepatology, (2003 Jun) 11 (6) 354-7. Journal code: 9710009. ISSN: 1007-3418.
- CY China
- DTJournal; Article; (JOURNAL ARTICLE)
- LΑ
- IN-PROCESS; NONINDEXED; Priority Journals FS
- Entered STN: 20030703 Last Updated on STN: 20031218

post-dules

diagnostic methods in evaluating liver fibrosis in hepatitis B virus (HBV) patients. METHODS: 102 patients with chronic hepatitis B (CHB) were enrolled from Beijing Friendship Hospital Affiliated to Capital University of Medical Sciences. Noninvasive diagnostic methods including ultrasonography, CT, serum markers of liver function and fibrosis, and HBV DNA were performed and compared with histological fibrotic changes in order to establish a noninvasive method for detecting the degree of liver fibrosis. RESULTS: The total score of liver surface, edge, parenchyma echogenicity, intrahepatic vessels, and the size of spleen had a coefficient of 0.822 with fibrotic stage. By receiver operating curve (ROC) analysis, the sensitivity to distinguish cirrhosis from CHB was 86.1% and the specificity was 95.5% if the total ultrasonic score was more than 10. The CT imaging diagnosed liver cirrhosis with a specificity of 100% and a sensitivity of 48.5%. The change of CT values in cirrhotic patients was lower than that in controls and no cirrhotic patients (F=5.805, P<0.01), when the voltage was increased from 100 KV to 140 KV. Except normal controls and S1 group, S2 and S3 group, the level of HA and collagen IV between the other groups were statistically different. The cut-off value of HA to diagnose cirrhosis was 108 (microg/L) with a sensitivity of 72.2% and a specificity of 80.3%. The cut-off value of collagen IV to diagnose cirrhosis was 188 (microg/L) with a sensitivity of 72.2% and a specificity of 78.8%. When ultrasonography was combined with serum markers, the sensitivity was 72.2% and the specificity was 80.3%. CONCLUSION: Both ultrasonography and serum markers are useful to diagnose cirrhosis. The combination of the two examinations is more valuable than any one alone. The characteristic CT imaging has high specificity but low sensitivity in diagnosing early cirrhosis. HA and collagen IV are correlated more closely with the stage of fibrosis, and can reflect the severity of fibrosis.

OBJECTIVE: To investigate the clinical usefulness of noninvasive

- L13 ANSWER 7 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 2
- AN 2003:237603 BIOSIS
- DN PREV200300237603
- TI Determination of serum fibrosis indexes in patients with chronic hepatitis and its significance.
- AU Zheng Min; Cai Weimin [Reprint Author]; Weng Honglei; Liu Ronghua
- CS Institute of Infectious Diseases, First Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, 310003, China caiweimin_hz@hotmail.com
- SO Chinese Medical Journal (English Edition), (March 2003) Vol. 116, No. 3, pp. 346-349. print.

 CODEN: CMJODS. ISSN: 0366-6999.

pest-dated

- DT Article
- LA English
- ED Entered STN: 14 May 2003
 - Last Updated on STN: 14 May 2003

AB Objectives: To study the relationship between serum levels of hyaluronic acid (HA), type III procollagen (PC III), laminin (LN), type IV collagen (IV-C) and hepatic fibrosis and to determine their value in clinical practice. Methods: 2600 serum samples from chronic hepatitis patients were assayed for fibrosis indexes including HA, PC III, LN and IV-C with RIA. Liver biopsy was performed in 280 of those patients and the biopsy material was examined histopathologically. The inflammation grade of the liver, stage of fibrosis and degree of chronic hepatitis were recorded and were compared with fibrotic indexes. Results: Among 2600 chronic hepatitis patients, every fibrotic index had a significant correlation with the inflammation grade, fibrosis staging and the degree of chronic hepatitis (P<0.01). The coefficient correlation of the results of histopathological examinations to HA was

0.544, 0.548 and 0.468 respectively, that to PC III, 0.495, 0.424 and 0.335, that to LN, 0.214, 0.204 and 0.184, and that to IV-C, 0.406, 0.404 and 0.412, respectively. Conclusions: Serum fibrosis indexes are fairly well correlated with the inflammation grade of the liver, fibrosis staging and the degree of chronic hepatitis. However, as diagnostic markers, they should be considered in combination with liver function tests, ultrasonography and clinical manifestations.

- ANSWER 8 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN L13
- AN2003:580493 BIOSIS
- DN PREV200300571161
- TINON-INVASIVE MARKERS OF FIBROTIC NONALCOHOLIC STEATOHEPATITIS.
- Oh, Sangik [Reprint Author]; Benson, Aaron [Reprint Author]; Grossman, ΑU Joseph [Reprint Author]; Nasser, Imad [Reprint Author]; Curry, Michael P. [Reprint Author]; Afdhal, Nezam H. [Reprint Author]
- CS Boston, MA, USA
- SO Digestive Disease Week Abstracts and Itinerary Planner, (2003) Vol. 2003, pp. Abstract No. M1376. e-file. Meeting Info.: Digestive Disease 2003. FL, Orlando, USA. May 17-22, 2003. American Association for the Study of Liver Diseases; American Gastroenterological Association; American Society for Gastrointestinal Endoscopy; Society for Surgery of the Alimentary Tract.
- DΤ Conference; (Meeting) Conference; Abstract; (Meeting Abstract) Conference; (Meeting Poster)
- T₁A English
- Entered STN: 10 Dec 2003 ED Last Updated on STN: 10 Dec 2003

- post dutos BACKGROUND: The challenge for the clinician in assessing the patients with AΒ nonalcoholic fatty liver disease (NAFLD) is to differentiate those with steatosis alone from those with progressive liver disease. At the present time, liver biopsy remains as the gold standard in staging hepatic fibrosis. OBJECTIVES: To assess the role of serum YKL-40 and HA in differentiating patients with fibrotic nonalcoholic steatohepatitis(NASH) from those with simple steatosis. METHODS: We performed a cross sectional analysis of 60 consecutive patients with NAFLD. Various clinical and biochemical data were obtained including estimation of insulin resistance by using homeostasis model assessment (HOMA). Serum levels of YKL-40 and HA were measured by ELISA and compared to histological staging of biopsies by Brunt Score and Computerized Image Analysis. RESULTS: Thirty-one patients had simple steatosis and 29 patients were found to have steatosis plus fibrosis. Our univariate analysis showed that the fibrosis group consisted of more diabetics (21.7% vs. 0%, p=0.02), higher insulin resistance based on HOMA index (5.99 vs. 3.47, p=0.01) and higher AST/ALT ratio (0.73 vs. 0.55, p= 0.01). There were no significant differences in mean age, number of females, body mass index (BMI) and total cholesterol levels between the two groups. The mean of serum YKL-40 was significantly higher (142 vs 72 m/ml, p < 0.05) in patients with fibrosis (stage 1-4) than simple steatosis. There was a trend towards higher serum levels of hyaluronic acid in the fibrosis group (61 vs. 36.3 U/ml, p=0.06) but this did not reach statistical significance with current sample size. However, when we compared simple steatosis to stage 2 to 4 fibrosis, both serum markers were significantly higher in the fibrosis group. A receiver operator curve (ROC) curve for serum YKL-40 revealed a sensitivity of 75% and a specificity of 90% in detecting fibrosis stage greater than or equal to Stage 2 when cutoff concentration was 116 ng/ml. Hyaluronic acid had sensitivity of 50% and specificity of 95% in detecting patients with fibrosis stage greater than or equal to Stage 2 when cutoff concentration was 84.6 U/ml. When two serum fibrosis markers are combined to detect fibrosis stage greater than or equal to 2, the sensitivity was 100% and specificity was 50%. CONCLUSIONS: Serum YKL-40 and HA are

useful markers in differentiating patients with simple steatosis from NASH patients with fibrosis stage greater than or equal to 2. In association with clinical parameters, they may identify suitable patients for liver biopsy.

- ANSWER 9 OF 22 CA COPYRIGHT 2004 ACS on STN L13 DUPLICATE 3
- AN 138:87746 CA
- TIBiochemical markers of liver fibrosis: a comparison with historical features in patients with chronic hepatitis C
- ΑU Myers, Robert P.; Ratziu, Vlad; Imbert-Bismut, Francoise; Charlotte, Frederic; Poynard, Thierry
- MULTIVIRC Group, Departments of Hepato-Gastroenterology, Biochemistry, and CS Pathology, Hopital La Pitie-Salpetriere, Paris, Fr.
- SO American Journal of Gastroenterology (2002), 97(9), 2419-2425 CODEN: AJGAAR; ISSN: 0002-9270
- PBElsevier Science Inc.
- DTJournal
- LΑ English

AΒ Liver fibrosis in chronic hepatitis C is related to sex, age at infection, duration of infection, and alc. consumption. Several noninvasive biochem. markers are highly predictive for the discrimination of significant fibrosis. The aims of this study were: (1) to compare an index of five biochem. markers with historical features; and (2) to determine the utility of combining these features with the five-marker index for the prediction of significant fibrosis. Untreated patients with chronic hepatitis C and a known duration of infection had a liver biopsy and serum tested for markers of fibrosis. The discriminative values of the markers and an index of historical features for the diagnosis of clin. significant fibrosis (F2-F4 by the Metavir system) were compared using areas under receiver operating characteristic (ROC) curves. A modified index was constructed combining the five-marker index and historical features. A total of 211 patients were included. Of these, 52% were male, and 19% consumed ≥50 g of alc. daily. The median age at infection was 28±13 yr and the median duration of infection was 17±8 yr (range 1-48 yr). By multivariate logistic regression anal., sex (p = 0.003), age at biopsy (p = 0.004), and alc. consumption (p = 0.042) were independently predictive of F2-F4 fibrosis. For the discrimination of F2-F4 fibrosis, the areas under the ROC curves were 0.796±0.033 for the five-marker index vs. 0.709 ± 0.037 for the historical index (p = 0.079). For diagnosis of advanced fibrosis (F3 and F4), the areas under the curves were 0.920 ± 0.032 and 0.762 ± 0.049 (p = 0.007), resp. The discriminative value of the combined biochem. and historical index was not statistically significantly different from that of the five-marker index alone (p = ns). A simple index including age, sex, and five biochem. markers accurately predicts significant hepatitis C-related fibrosis. This index is more accurate than an index of historical features, the addition of which to the existing index was not helpful.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD post dalls ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L13 ANSWER 10 OF 22 MEDLINE on STN
- AN 2002640839 MEDLINE
- DN PubMed ID: 12395328
- Quantitative evaluation of altered hepatic spaces and membrane transport TIin fibrotic rat liver.
- ΑU Hung Daniel Y; Chang Ping; Cheung Kee; Winterford Clay; Roberts Michael S
- CS Department of Medicine and Division of Chemical Pathology, University of Queensland, Princess Alexandra Hospital, Woollongabba, Australia.
- Hepatology (Baltimore, Md.), (2002 Nov) 36 (5) 1180-9. SO Journal code: 8302946. ISSN: 0270-9139.
- CY United States
- DTJournal; Article; (JOURNAL ARTICLE)

pest dutts

- LA English
- FS Priority Journals
- EM200212
- Entered STN: 20021026 ED Last Updated on STN: 20021217 Entered Medline: 20021209
- AΒ Four animal models were used to quantitatively evaluate hepatic alterations in this study: (1) a carbon tetrachloride control group (phenobarbital treatment only), (2) a CCl(4)-treated group (phenobarbital with CCl(4) treatment), (3) an alcohol-treated group (liquid diet with alcohol treatment), and (4) a pair-fed alcohol control group (liquid diet only). At the end of induction, single-pass perfused livers were used to conduct multiple indicator dilution (MID) studies. Hepatic spaces (vascular space, extravascular albumin space, extravascular sucrose space, and cellular distribution volume) and water hepatocyte permeability/surface area product were estimated from nonlinear regression of outflow concentration versus time profile data. The hepatic extraction ratio of (3)H-taurocholate was determined by the nonparametric moments method. Livers were then dissected for histopathologic analyses (e.g., fibrosis index, number of fenestrae). In these 4 models, CCl(4)-treated rats were found to have the smallest vascular space, extravascular albumin space, (3) H-taurocholate extraction, and water hepatocyte permeability/surface area product but the largest extravascular sucrose space and cellular distribution volume. In addition, a linear relationship was found to exist between histopathologic analyses (fibrosis index or number of fenestrae) and hepatic spaces. The hepatic extraction ratio of (3)H-taurocholate and water hepatocyte permeability/surface area product also correlated to the severity of fibrosis as defined by the fibrosis index. In conclusion, the multiple indicator dilution data obtained from the in situ perfused rat liver can be directly related to histopathologic analyses.
- ANSWER 11 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN L13
- 2002:378564 BIOSIS ΑN
- DN PREV200200378564
- TΤ Cationic drug pharmacokinetics in diseased livers determined by fibrosis index, hepatic protein content, microsomal activity, and nature of drug.
- ΑU Hung, Daniel Y.; Chang, Ping; Cheung, Kee; McWhinney, Brett; Masci, Paul P.; Weiss, Michael; Roberts, Michael S. [Reprint author]
- Department of Medicine, University of Queensland, Princess Alexandra Hospital, Woollongabba, QLD, 4102, Australia M.Roberts@mailbox.uq.edu.au
- Journal of Pharmacology and Experimental Therapeutics, (June, 2002) per fully 301, No. 3, pp. 1079-1087. print. CODEN: JPETAB. ISSN: 0022-3565.
- DTArticle
- LΑ English
- ED Entered STN: 10 Jul 2002 Last Updated on STN: 10 Jul 2002

The disposition kinetics of six cationic drugs in perfused diseased and AB normal rat livers were determined by multiple indicator dilution and related to the drug physicochemical properties and liver histopathology. A carbon tetrachloride (CCl4)-induced acute hepatocellular injury model had a higher fibrosis index (FI), determined by computer-assisted image analysis, than did an alcohol-induced chronic hepatocellular injury model. The alcohol-treated group had the highest hepatic alphal-acid glycoprotein, microsomal protein (MP), and cytochrome P450 (P450) concentrations. Various pharmacokinetic parameters could be related to the octanol-water partition coefficient (log Papp) of the drug as a surrogate for plasma membrane partition coefficient and affinity for MP or P450, the dependence being lower in the CCl4-treated group and higher in the alcohol-treated group relative to controls. Stepwise

regression analysis showed that hepatic extraction ratio, permeability-surface area product, tissue-binding constant, intrinsic clearance, partition ratio of influx (kin) and efflux rate constant (kout), and kin/kout were related to physicochemical properties of drug (log Papp or pKa) and liver histopathology (FI, MP, or P450). In addition, hepatocyte organelle ion trapping of cationic drugs was evident in all groups. It is concluded that fibrosis-inducing hepatic disease effects on cationic drug disposition in the liver may be predicted from drug properties and liver histopathology.

L13 ANSWER 12 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

2002:345938 BIOSIS AN

PREV200200345938 DN

TICould biochemical markers of liver fibrosis reduce the number of liver biopsies?. Original Title: Biopsie du foie contre prise de sang pour le suivi de

- ΑU Poynard, Thierry [Reprint author]; Ratziu, Vlad [Reprint author]; Moussalli, Joseph [Reprint author]; Regimbeau, Corinne [Reprint author]; di Martino, Vincent [Reprint author]; Benhamou, Yves [Reprint author]; Myers, Rob [Reprint author]; Imbert-Bismut, Francoise [Reprint author]
- CS Service d'hepatogastroenterologie, Service de Biochimie, Groupe MULTIVIRC, Groupe Hospitalier Pitie-Salpetriere, 47, Boulevard de l'Hopital, 75651, Paris Cedex 13, France
- M-S (Medecine Sciences), (Mars, 2002) Vol. 18, No. 3, pp. 353-356. prir SO ISSN: 0767-0974.
- Article DT
- T.A French

EDEntered STN: 19 Jun 2002 Last Updated on STN: 19 Jun 2002

- Liver biopsy is actually essential for the management of patients infected AΒ by hepatitis C virus. It is necessary to grade and stage hepatitis and fibrosis, and make decision about treatment. However, liver biopsy is aggressive and can be a limitation for patients management. With a combination of five basic serum biochemical markers for diagnosis of fibrosis, high positive and negative predictive values of important fibrosis can be obtained, suggesting that this index of fibrosis could be used to substantially reduce the number of liver biopsies.
- L13 ANSWER 13 OF 22 MEDLINE on STN
- AN 2002241582 MEDLINE
- DN PubMed ID: 11876795
- Biochemical markers of liver fibrosis in patients infected by hepatitis C virus: longitudinal validation in a randomized trial.
- ΑIJ Poynard T; Imbert-Bismut F; Ratziu V; Chevret S; Jardel C; Moussalli J; Messous D; Degos F
- CS Hepatogastroenterology Groupe Hospitalier Pitie-Salpetriere, 47 Boulevard de l'Hopital, 75651 Paris Cedex 13, France. (GERMED cyt04 group). tpoynard@teaser.fr
- SO Journal of viral hepatitis, (2002 Mar) 9 (2) 128-33. Journal code: 9435672. ISSN: 1352-0504.
- CY England: United Kingdom
- DT(CLINICAL TRIAL) Journal; Article; (JOURNAL ARTICLE) (MULTICENTER STUDY) (RANDOMIZED CONTROLLED TRIAL)
- LA English
- FS Priority Journals
- EM200206
- EDEntered STN: 20020501 Last Updated on STN: 20020604

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Entered Medline: 20020603

AB A liver fibrosis index was recently prospectively validated in a cross-sectional study where patients infected by hepatitis C virus (HCV) had only one biopsy and no longitudinal follow-up. of this study was to retrospectively assess the diagnostic value of this index in patients included in a randomized trial of interferon (IFN) using repeated measurements, two biopsies and hyaluronic acid as a comparative reference. One-hundred and sixty-five patients who had had two interpretable liver biopsies and at least one stored serum sample before IFN treatment were selected. Seventy-eight patients received 3 MU of IFN-alpha thrice weekly for 24 weeks and 87 followed a reinforced regimen for 48 weeks. A fibrosis index combining five biochemical markers (alpha2-macroglobulin, haptoglobin, apolipoprotein Al, gamma-glutamyl transpeptidase (GGT) and total bilirubin adjusted for gender and age) as well as hyaluronic acid was assessed on 461 samples available at baseline, at the end of treatment and at the end of follow-up (72 weeks). There was a significant decrease of the fibrosis index score among the 17 sustained virologic responders, from 0.33 +/-0.06 (mean \pm SE) at baseline to 0.18 \pm 0.06 at 72 weeks in comparison with 92 nonresponders (from 0.41 +/- 0.03 at baseline to 0.44 +/- 0.03 at 72 weeks; P < 0.001) and in comparison with 56 relapsers (from 0.36 +/-0.03 at baseline to 0.32 \pm 0.03 at 72 weeks; P=0.05). No significant differences were observed for hyaluronic acid. Hence, this fibrosis index could be used as a surrogate marker of the antifibrotic effect of treatments in patients with chronic hepatitis C.

- L13 ANSWER 14 OF 22 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
- AN 2004:47779 BIOSIS
- DN PREV200400050027
- TI Evaluation of liver fibrosis by combined serum markers in chronic hepatitis C patients treated by interferon alpha and ribavrin.
- AU Leroy, Vincent [Reprint Author]; Trocme, Candice; Bottari, Serge; Sturm, Nathalie; Morel, Francoise; Zarski, Jean-Pierre [Reprint Author]
- CS Department of Hepatogastroenterology, CHU Grenoble, Grenoble, France SO Journal of Hepatology, (April 2002) Vol. 36, No. Supplement 1, pp. 116.
- print.

 Meeting Info.: Biennial Meeting of the International Association for the Study of the Liver. Madrid, Spain. April 15-16, 2002. European Association for the Study of the Liver; International Association for the Study of the

ISSN: 0168-8278 (ISSN print).

- DT Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 Conference; (Meeting Poster)
- LA English
- ED Entered STN: 21 Jan 2004 Last Updated on STN: 21 Jan 2004
- L13 ANSWER 15 OF 22 CA COPYRIGHT 2004 ACS on STN DUPLICATE 4
- AN 135:316782 CA
- TI Biochemical markers of **liver fibrosis** in patients with hepatitis C virus infection: a prospective study
- AU Imbert-Bismut, F.; Ratziu, V.; Pieroni, L.; Charlotte, F.; Benhamou, Y.; Poynard, T.
- CS The MULTIVIRC Group, Laboratoire d'Immunologie des Tumeurs, Faculte des Sciences Pharmaceutiques et Biologiques de Paris, Department of Biochemistry, Universite Rene Descartes, Paris, 75651, Fr.
- SO Lancet (2001), 357(9262), 1069-1075 CODEN: LANCAO; ISSN: 0140-6736
- PB Lancet Ltd.
- DT Journal
- LA English

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Liver biopsy is thought mandatory for management of patients with AΒ hepatitis C virus (HCV) infection, especially for staging fibrosis. We aimed, in our prospective study, to assess the predictive value of a combination of basic serum biochem. markers for diagnosis of clin. significant fibrosis (including early stages). We assessed liver-biopsy patients with detectable HCV by PCR, for eligibility, and took a blood sample on the day of the procedure. anal. was done in a 1st-year period for 205 patients and then tested in a second period on 134 patients. We devised a fibrosis index that included the most informative markers (combined with age and sex) for the 1st-year group. 11 Serum markers were assessed as well as fibrosis stage: F0=no fibrosis and F1=portal fibrosis; and for clin. significant fibrosis, F2=few septa, F3=many septa, and F4=cirrhosis. Statistical anal. was by logistic regression, neural connection, and receiver-operating characteristic (ROC) curves. First-year and 2nd-year patient-group characteristics and biochem. markers did not differ. The overall frequency of clin. significant fibrosis was 40% (138 patients). The most informative markers were: $\alpha 2$ macroglobulin, $\alpha 2$ globulin (or haptoglobin), γ globulin, apolipoprotein A1, γ glutamyltranspeptidase, and total bilirubin. The areas (SD) under the ROC curves for the 1st-year (0.836 [0.430]) and 2nd-year groups (0.870 [0.340]) did not differ (p=0.44). With the best index, a high neg. predictive value (100% certainty of absence of F2, F3, or F4) was obtained for scores ranging from 0 to 0.10 (12% [41] of all patients), and high pos. predictive value (>90% certainty of presence of F2, F3, or F4) for scores ranging from 0.60 to 1.00 (34% [115] of all patients). A combination of basic serum markers could be used to substantially reduce the number of liver biopsies done in patients with chronic HCV infection.

L13 ANSWER 16 OF 22 MEDLINE on STN

AN2002073097 MEDLINE

DN PubMed ID: 11798612

Determination and significance of serum markers for fibrosis in patients with chronic hepatitis.

THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD

- ΑU Cai W; Zheng M; Weng H; Liu R
- The Institute of Infectious Diseases, The First Affiliated Hospital, CS School of Medicine, Zhejiang University, Hangzhou 310003, China.

ALL CITATIONS AVAILABLE IN THE RE FORMAT

SO Zhonghua nei ke za zhi [Chinese journal of internal medicine], (2001 Jul) 40 (7) 448-51.

CY

RE.CNT 32

DT

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... 20020125

Entered Medline: 20030923

OBJECTIVE: To find the relationship between serum levels of hyaluronic acid (HA), type III procollagen (PC III), laminin (LN), type IV collagen with (IV-C) and hepatic fibrosis as well as to determine their value in clinical practice. METHODS: 2600 serum samples for chronic hepatitis patients were tested with RIA for file assays including HA, PC III, LN and IV-C. 280 samples taken had liver biopsy performixamine pathomorphologically inflammation graden the 2600 AΒ In the 2600 serum samples from chronic hepatitis patients, fibrosis indexes (including HA, PC III, LN and IV-C) had significant correlation with inflammation grade, fibrosis stage and the degree of chronic

hepatitis (P < 0.01). The relating indexes to HA were 0.544, 0.548, 0.468 respectively, to PC III 0.495, 0.424, 0.335 respectively, to LN 0.214, 0.204, 0.184 and to IV-C were 0.464, 0.404, 0.412 respectively. CONCLUSION: Serum fibrosis indexes are fairly well correlated with the inflammation grade, fibrosis stage and the degree of chronic hepatitis. However, as diagnostic markers, they must be combined with liver function, ultrasonography and clinical features.

- L13 ANSWER 17 OF 22 CA COPYRIGHT 2004 ACS on STN
- AN 136:384107 CA
- ΤI Relationships between serum markers of liver fibrosis and pathological changes in chronic hepatitis
- ΑU Ren, Weiying; Zhang, Shuncai; Hu, Dechang; Liu, Houyu
- CS Department of Gastroenterology, Zhongshan Hospital, Fudan University, Shanghai, 200032, Peop. Rep. China
- SO Fudan Xuebao, Yixue Kexueban (2001), 28(4), 343-346 CODEN: FXYKAS
- PB Shanghai Yike Daxue Chubanshe
- DTJournal
- Chinese T.A
- The relationship between serum markers of liver fibrosis AB~ and pathol. changes in chronic hepatitis was studied. Serum levels of precollagen type III peptide (PIII P), collagen type IV (CIV), and hyaluronic acid (HA) were detected by RIA (RIA) or enzyme linked immunosorbent assay (ELISA) in 243 patients with chronic liver disease. The pathol. changes of liver biopsy were described as stage for fibrosis extent and grade for inflammation activity. The stage and grade were interrelated. The serum levels of PIII P, CIV, and HA were increased with the progress of liver fibrosis, and were pos. correlated with the fibrotic stage and grade. The sensitivity and specificity for diagnosis of liver fibrosis

with combination of the three markers were 88.7% and 71.4%, resp. Only the level of HA in 12 patients with liver cirrhosis was significantly higher than that with chronic hepatitis stage 4 (P <0.05). The results showed that serum PIII P, CIV, and HA may be used for assessing the extent of liver fibrosis, and inflammation may play an important role in fibrogenesis.

- L13 ANSWER 18 OF 22 MEDLINE on STN
- 2002006858 MEDLINE AN
- DN
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- SO
- CY
- DΤ
- LΑ
- FS
- EM
- ED
- Oh S; Afdhal N H
 Beth Israel Deaconess Medical Center, Harvard Medical School, 110 Francis
 Street, Suite 8E, Boston, MA 02215, USA.
 Current gastroenterology reports, (2001 Feb) 3 (1) 12-8. Ref: 52
 Journal code: 100888896. ISSN: 1522-8037.
 United States.
 Journal; Article; (JOURNAL ARTICLE)
 General Review; (REVIEW)
 (REVIEW, TUTORIAL)
 English
 Priority Journals
 200310
 Entered STN: 20020121
 Last Updated on STN: 20021211
 Entered Medline: 20031031
 There is a clinical need for noninvasive measurement of liver
 Tibrosis both to diagnose significant liver
 Tibrosis and to monitor the effects of there
 Tibrosis and fibral AB fibrogenesis and fibrolysis. Multiple clinical markers

have been evaluated over the years, and as our understanding of the molecular process of liver scarring has advanced, newer markers have appeared. Serum markers include extracellular matrix proteins such as the N-terminal propeptide of collagen III, hyaluronan, YKL-40, laminin, metalloproteinases, and their inhibitors. Use of multiple markers has led to 90% sensitivity in diagnosing cirrhosis, but specificity is variable at about 60%. Automated systems to measure these markers are under development and are being evaluated for their ability to monitor fibrosis during and after therapy in multiple liver diseases, including hepatitis B and C. Although no

individual fibrosis marker is clinically applicable today, we foresee a

ANSWER 19 OF 22 CA COPYRIGHT 2004 ACS on STN DUPLICATE 5

sequential liver biopsy as a standard of care.

future in which monitoring fibrosis markers will replace

133:204910 CA AN

ΤI Triple-staining to identify apoptosis of hepatic cells in situ

- ΑU Zhang, Jing; You, Honh; Wang, Tailing; Wang, Baoen; Jia, Jidong; Katayama, Hironori; Maeda, Shotaro; Wang, Ruojaio; Asano, Goro; Ishiwata, Toshiyuki; Naito, Zenya; Yokoyama, Munehiro
- Div Pathol., China-Japan Friendship Hosp., Beijing, 100029, Peop. Rep. CS China
- Journal of Nippon Medical School (2000), 67(4), 280-283 SO CODEN: JNMSF5; ISSN: 1345-4676
- PB Medical Association of Nippon Medical School
- DTJournal
- LAEnglish
- To identify apoptosis of non-parenchymal cells in fibrotic AΒ livers, we established a triple staining method which combined immunohistochem. for cell markers and Masson staining for collagen as well as terminal deoxynucleotidyl transferase UTP nick end labeling (TUNEL). Five µm formalin fixed, paraffin-embedded liver sections were prepared for staining. Firstly, TUNEL staining was carried out to detect apoptosis of liver cells. Then, the sections were subjected to immunohistochem. for α -smooth muscle actin (α -SMA) or KP-1 to identify hepatic stellate cells or Kupffer cells. Finally, Masson staining was performed to show the relationship between apoptosis and collagens. In addition, we optimized different conditions of fixation, digestion, and color development which may affect the results.
- ANSWER 20 OF 22 CA COPYRIGHT 2004 ACS on STN L13
- AN
- TI
- ΑU
- CS
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- PB
- DT
- LA

ANSWER 20 OF 22 CA COPYRIGHT 2004 ACS on STN DUPLICATE 6

128:138283 CA

Urinary assays for desmosine and hydroxylysylpyridinoline in the detection of cirrhosis

Afdhal, Nezam H.; Keaveny, Andrew P.; Cohen, Teven B.; Nunes, David P.; Maldonado, Norris; O'Brien, Michael; Stone, Phillip J.

Section of Gastroenterology, Evans Department of Medicine and Thorndike Memorial Laboratories, Boston University School of Medicine, USA

Journal of Hepatology (1997), 27(6), 993-1002

CODEN: JOHEEC; ISSN: 0168-8278

Munksgaard International Publishers Ltd.

Journal

English

Non-invasive markers of liver fibrosis have great potential for both the diagnosis and therapy of liver disease and cirrhosis. The aim of this study was to evaluate the potential of AΒ and cirrhosis. The aim of this study was to evaluate the potential of urinary amino acids desmosine (DES) and isodesmosine (IDES) derived from the breakdown of elastin and hydroxylysylpyridinoline (HP) and lysylpyridinoline (LP) derived from fibrillar collagen in diagnosing chronic liver disease. We studied 48 patients with chronic liver disease who had varying degrees of liver fibrosis, graded 0-6 using a modified Knodell score, and 20

control subjects without liver disease. Urinary DES (µg/g creatinine) and HP (nmol/mmol creatinine) were measured by an isotope dilution, high performance liquid chromatog. method. For liver disease patients, aminoterminal propeptide of type III procollagen (PIIINP) and alanine aminotransferase were determined The urine and serum markers were correlated to degree of fibrosis and inflammation on liver biopsies. Differences between groups were analyzed by ANOVA and multiple linear regression was applied to T determine independence of variables. Sensitivity, specificity and receiver operating curves were derived for each marker. In the 17 patients with liver fibrosis score of 5-6, mean urinary DES, IDES, HP and LP were all significantly greater than in the control group (p<0.05). Urinary DES and IDES correlated best with fibrosis score, r=0.61 for both markers. The correlation coefficient between serum PIIINP and fibrosis score was 0.47. Urinary DES and HP each had an overall diagnostic accuracy of 77% for fibrosis. Combining markers improved accuracy to over 80%. No correlation was seen between the urinary markers and inflammation scores. Urinary DES and HP are potentially useful clin. markers for liver fibrosis

, especially when used in combination or in association with PIIINP.
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L13 ANSWER 21 OF 22 CA COPYRIGHT 2004 ACS on STN
- AN 120:210564 CA
- TI Effect of chronic alcohol intake on rat liver microcirculation assessed by the multiple indicator dilution technique
- AU Akamatsu, Kouichi; Nishinobu, Masao; Ohuchi, Takashi; Tada, Kouji; Ohta, Yasuyuki
- CS Med. Sch., Ehime Univ., Onsen, 791-02, Japan
- SO Alcohol and Alcoholism (Oxford, United Kingdom) (1993), 28(1A), 53-8 CODEN: ALALDD; ISSN: 0735-0414
- DT Journal
- LA English
- AB To study the hepatic microcirculatory disturbance in alc. liver injury, rats were chronically (8-12 wk) fed with alc. via a gastric fistula according to the method of Tsukamoto and French (1986). The hepatic microcirculation was studied by measuring the sinusoidal volume (SV) and the apparent space of Disse (DS) volume using a multiple—indicator dilution technique. Both the SV and the DS volume were significantly decreased in the alc.—fed rats at 8-12 wk despite the absence of microscopically detectable hepatic fibrosis. Similar changes were noted in the alc.—fed and control rats regarding expansion of the SV and the DS volume with alternations in portal pressure. However, since the vols. in the alc.—fed group increased with the increase of portal pressure, they maintained a steady difference from the control values. These results suggest that the decrease of the SV and the DS vl. may have been secondary to compression caused by

steatosis and/or hepatocyte enlargement, although a possible role for

L13 ANSWER 22 OF 22 MEDLINE on STN

AN 94190367 MEDLINE

not be ruled out.

- DN PubMed ID: 8141923
- TI Effect of chronic alcohol intake on rat liver microcirculation assessed the multiple indicator dilution technique.
- AU Akamatsu K; Nishinobu M; Ohuchi T; Tada K; Ohta Y

microscopically undetectable hepatic fibrosis could

- CS Third Department of Internal Medicine, Ehime University, Medical School, Japan.
- SO Alcohol and alcoholism (Oxford, Oxfordshire). Supplement, (1993) 1A 53-8. Journal code: 8804836. ISSN: 1358-6173.
- CY ENGLAND: United Kingdom
- DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199404

ED Entered STN: 19940511

Last Updated on STN: 19970203 Entered Medline: 19940429

AB To study the hepatic microcirculatory disturbance in alcoholic liver injury, rats were chronically (8-12 weeks) fed with alcohol via a gastric fistula according to the method of Tsukamoto and French (1986). The hepatic microcirculation was studied by measuring the sinusoidal volume (SV) and the apparent space of Disse (DS) volume using a multiple -indicator dilution technique. Both the SV and the DS volume were significantly decreased in the alcohol-fed rats at 8-12 weeks despite

fibrosis. Similar changes were noted in the alcohol-fed and control rats regarding expansion of the SV and the DS volume with alterations in portal pressure. However, since the volumes in the alcohol-fed group increased with the increase of portal pressure, they maintained a steady difference from the control values. These results suggested that the decrease of the SV and the DS volume may have been secondary to compression caused by steatosis and/or hepatocyte enlargement, although a possible role for microscopically undetectable hepatic fibrosis could not be ruled out.

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the absence of microscopically detectable hepatic

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